



Model Name: T315XW06 V1

Issue Date: 2010/04/01

()Preliminary Specifications(*)Final Specifications

Customer Signature	Date	AUO	Date					
Approved By		Approval By PM Director YenTing Chiu						
s		u din						
Note		Reviewed By RD Director						
		Eugene CC Chen						
		Eugen Chen						
		Reviewed By Project Leader						
		Sarah Ke						
			16123					
		Prepared By PM						
		Hubert Liu						
		Hubere Liu 2010/6/17						





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Record of Revision

Version	Date	Page	Description
0.1	2010/04/01		First release
1.0	2010/05/20	13	Update power sequence t3 Max 450
		13	Add power sequence t8 & t9
		14	Update LED lightbar driven condition
		15	Update Contrast Ratio Min. 3,200, Typ. 4,000





1. General Description

This specification applies to the 31.5 inch Color TFT-LCD Module T315XW06 V1. This LCD module has a TFT active matrix type liquid crystal panel 1,366 x 768 pixels, and diagonal size of 31.5 inch. This module supports 1,366 x 768 mode. Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8-bit gray scale signal for each dot.

The T315XW06 V1 has been designed to apply the 8-bit 1 channel LVDS interface method. It is intended to support displays where high brightness, wide viewing angle, high color saturation, and high color depth are very important.

General Information

Items	Specification	Unit	Note
Active Screen Size	31.5	inch	
Display Area	697.685 (H) x 392.256(V)	mm	
Outline Dimension	741 4 (H) v 425 9 (M) v 16 9 (D)	mm	Front Bezel to T-con
Outline Dimension	741.4 (H) x 435.8 (V) x 16.8 (D)		Shielding
Driver Element	a-Si TFT active matrix		
Display Colors	8 bit, 16.7M	color	
Number of Pixels	1,366 x 768	pixel	
Pixel Pitch	0.51075	mm	
Pixel Arrangement	RGB vertical stripe		
Display Operation Mode	Normally Black		
Surface Treatment	Anti-Glare, 3H		Haze=11%





T315XW06 V1 Product Specification

2. Absolute Maximum Ratings

The followings are maximum values which, if exceeded, may cause faulty operation or damage to the unit

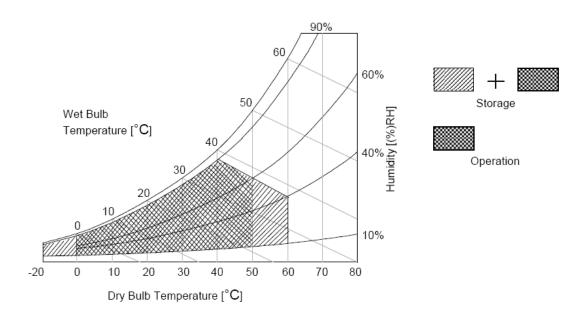
Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	Vcc	-0.3	14	[Volt]	Note 1
Input Voltage of Signal	Vin	-0.3	4	[Volt]	Note 1
Operating Temperature	TOP	0	+50	[°C]	Note 2
Operating Humidity	HOP	10	90	[%RH]	Note 2
Storage Temperature	TST	-20	+60	[°C]	Note 2
Storage Humidity	HST	10	90	[%RH]	Note 2
Panel Surface Temperature	PST		65	[°C]	Note 3

Note 1: Duration:50 msec.

Note 2 : Maximum Wet-Bulb should be 39 $^{\circ}$ C and No condensation.

The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less. At temperatures greater than 40° C, the wet bulb temperature must not exceed 39° C.

Note 3: Surface temperature is measured at 50°C Dry condition







3. Electrical Specification

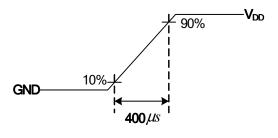
The T315XW06 V1 requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input for BLU is to drive LED lightbar.

3-1 Electrical Characteristics

	Doromotor	Cymbol		Value		Unit	Note
	Parameter	Symbol	Min.	Тур.	Max	Offic	Note
LCD							
Power Sup	pply Input Voltage	V _{DD}	10.8	12	13.2	V_{DC}	1
Power Sup	pply Input Current	I _{DD}		0.3		Α	2
Power Cor	nsumption	P _C		3.6)-	Watt	2
Inrush Cur	I _{RUSH}		2	3	Α	3	
11/100	Differential Input High Threshold Voltage				+100	mV	4
LVDS Interface	Differential Input Low Threshold Voltage	V _{TL}	-100			mV	4
interrace	Input Common Mode Voltage	V _{ICM}	1.1	1.25	1.4	V_{DC}	4
CMOS	Input High Threshold Voltage	V _{IH} (High)	2.7		3.3	V_{DC}	
Interface	Input Low Threshold Voltage	V _{IL} (Low)	0		0.6	V _{DC}	1
Backlight F	Power Consumption	P _{BL}		32.6		Watt	
Life Time			30,000			Hours	7

Note:

- 1. The ripple voltage should be controlled under 10% of V_{CC}
- 2. Test Condition:
 - (1) $V_{DD} = 12.0V$
 - (2) Fv = 60Hz
 - (3) $F_{CLK} = 80 \text{ Mhz (typ.)}, 86 \text{Mhz (max)}$
 - (4) Temperature = 25 °C
 - (5) Test Pattern : White Pattern
- **3.** Measurement condition : Rising time = 400us

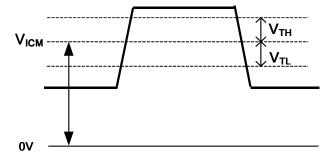




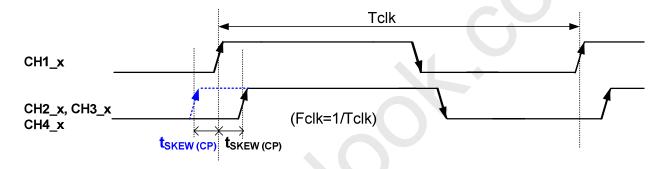


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4. $V_{ICM} = 1.25V$



5. Input Channel Pair Skew Margin



- 6. The relative humidity must not exceed 80% non-condensing at temperatures of 40°C or less. At temperatures greater than 40℃, the wet bulb temperature must not exceed 39℃. When operate at low temperatures, the brightness of LED will drop and the life time of LED will be reduced.
- 7. The lifetime is defined as the time which luminance of LED is 50% compared to its original value. [Operating condition: Continuous operating at Ta = $25\pm2^{\circ}$ C]





3-2 Interface Connections

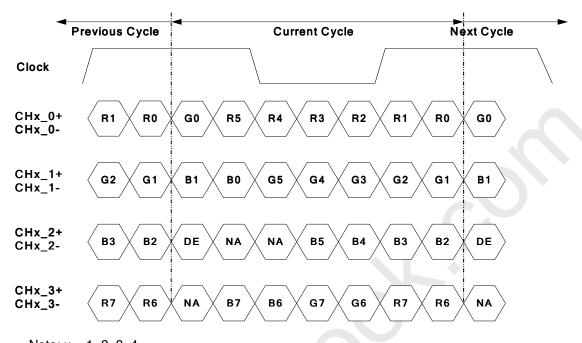
• LCD Connector - LVDS connector on transfer board : Starconn 093G30-B0001A-1

PIN	Symbol	Description
1	V_{DD}	Power Supply, +12V DC Regulated
2	V_{DD}	Power Supply, +12V DC Regulated
3	V_{DD}	Power Supply, +12V DC Regulated
4	V_{DD}	Power Supply, +12V DC Regulated
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	LVDS_SEL	Open/High(3.3V) for NS, Low(GND) for JEIDA
10	Reserved	AUO Internal Use Only
11	GND	Ground
12	CH1_0-	LVDS Channel 1, Signal 0-
13	CH1_0+	LVDS Channel 1, Signal 0+
14	GND	Ground
15	CH1_1-	LVDS Channel 1, Signal 1-
16	CH1_1+	LVDS Channel 1, Signal 1+
17	GND	Ground
18	CH1_2-	LVDS Channel 1, Signal 2-
19	CH1_2+	LVDS Channel 1, Signal 2+
20	GND	Ground
21	CH1_CLK-	LVDS Channel 1, Clock -
22	CH1_CLK+	LVDS Channel 1, Clock +
23	GND	Ground
24	CH1_3-	LVDS Channel 1, Signal 3-
25	CH1_3+	LVDS Channel 1, Signal 3+
26	GND	Ground
27	Reserved	AUO Internal Use Only
28	Reserved	AUO Internal Use Only
29	GND	Ground
30	GND	Ground



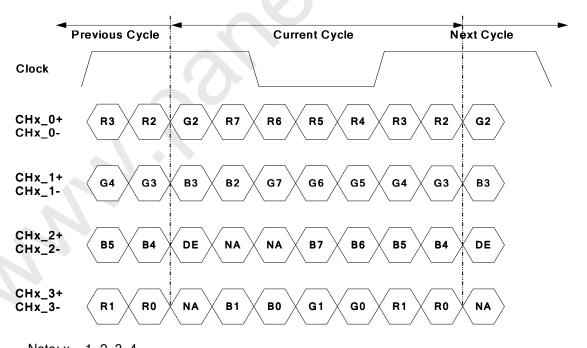
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LVDS Option = High/Open → NS



Note: x = 1, 2, 3, 4...

LVDS Option = Low → JEIDA



Note: x = 1, 2, 3, 4...





3-3 Signal Timing Specification

This is the signal timing required at the input of the user connector. All of the interface signal timing should be satisfied with the following specifications for its proper operation.

Signal	Item	Symbol	Min.	Тур.	Max	Unit
	Period	Tv	784	810	1015	Th
Vertical Section	Active	Tdisp (v)		768		Th
	Blanking	Tblk (v)	16	42	247	Th
	Period	Th	1460	1648	2000	Tclk
Horizontal Section	Active	Tdisp (h)		1366		Tclk
	Blanking	Tblk (h)	94	282	634	Tclk
Clock	Frequency	Fclk=1/Tclk	50	80	86	MHz
Vertical Frequency	Frequency	Fv	47	60	63	Hz
Horizontal Frequency	Frequency	Fh	43	48	53	KHz

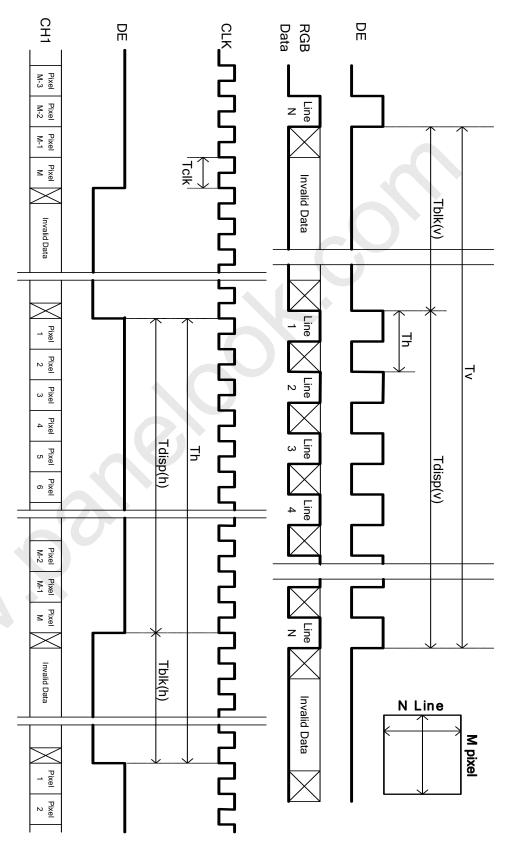
Notes:

- (1) Display position is specific by the rise of DE signal only.
 Horizontal display position is specified by the rising edge of 1st DCLK after the rise of 1st DE, is displayed on the left edge of the screen.
- (2) Vertical display position is specified by the rise of DE after a "Low" level period equivalent to eight times of horizontal period. The 1st data corresponding to one horizontal line after the rise of 1st DE is displayed at the top line of screen.
- (3) If a period of DE "High" is less than 1,366 DCLK or less than 768 lines, the rest of the screen displays black.
- (4) The display position does not fit to the screen if a period of DE "High" and the effective data period do not synchronize with each other.





3-4 Signal Timing Waveforms







3-5 Color Input Data Reference

The brightness of each primary color (red, green and blue) is based on the 8 bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

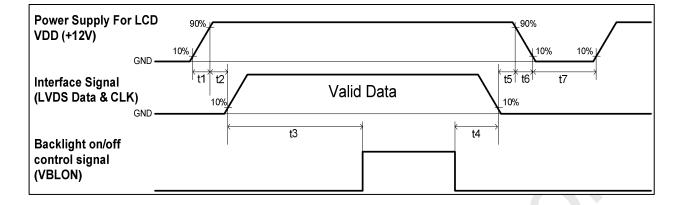
• Color Data Reference

											I	npu	t Co	lor	Data	a									
	Color				RE	ΞD							GRI	EEN							BL	UE			
	Coloi	MS	В					LS	SB	MS	В					LS	B	MS	В					LS	SB
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	ВЗ	B2	B1	В0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0	0	0	0
	Red(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Basic	Blue(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Color	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	RED(000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(001)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R																									
	RED(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
G																									
	GREEN(254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	GREEN(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	BLUE(000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BLUE(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
В		•								•															
	BLUE(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	BLUE(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1



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3-6 Power Sequence for LCD



		11.2		
Parameter	Min.	Type.	Max.	Unit
t1	0.4		30	ms
t2	0.1		50	ms
t3	450	4		ms
t4	0*1			ms
t5	0	(/)		ms
t6			*2 	ms
t7	500			ms
t8	10		50	ms
t9	0			ms

Note:

(2) T6: voltage of VDD must decay smoothly after power-off. (customer system decide this value)

⁽¹⁾ T4=0 : concern for residual pattern before BLU turn off.





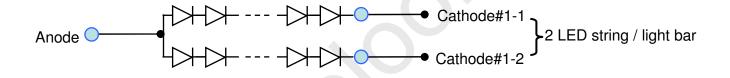
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Backlight Specification

The backlight unit contains 2 pcs of light bars in bottom side.

3-7-1 LED lightbar driven condition

Paramete	Symbol		Values	Unit	Note		
Faramete	Symbol	Min.	Тур.	Max.	Offic	Note	
Forward Current	Anode	I _F (Anode)		240		mA	
One lightbar Cathode		I _F (Cathode)	114	120	126	mA	
Forward Voltage		V_{F}	58	68	72	V	
Forward Voltage Variation	$ riangle V_F$			1.8	٧		
Total Power Consumption (2 pcs of lightbar)	P _{BL}	27.84	32.64	34.56	W	



3-7-2 LED lightbar Pin Assignment

Pin No.	20010WR-12 (YEONHO)
1	# 1 Anode (240mA)
2	NC
3	# 1-1 Cathode 120mA
4	# 1-2 Cathode 120mA
5	NC
6	NC
7	NC
8	NC
9	# 2-2 Cathode (120mA)
10	# 2-1 Cathode (120mA)
11	NC
12	# 2 Anode (240mA)

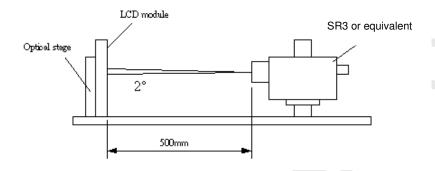




4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 45 minutes in a dark environment at 25 °C. The values specified are at an approximate distance 50cm from the LCD surface at a viewing angle of φ and θ equal to 0 °.

Fig 1 presents additional information concerning the measurement equipment and method.



Parameter			Values				
		Symbol	Min.	Тур.	Max	Unit	Notes
Contrast F	Ratio	CR	3,200	4,000			1
Surface Lu	uminance (White)	L _{WH}	350	400		cd/m ²	2
Luminance Variation		δ _{WHITE(9P)}			1.33		3
Response Time (G to G)		Тү		6.5		Ms	4
Color Gamut		NTSC		72		%	
	Red	R_X		0.64	Тур.+0.03		
		R_{Y}		0.33			
	Green	G _X		0.31			
Color		G _Y	T 0.00	0.62			
Coordinate	es Blue	B _X	Тур0.03	0.15			
		B _Y		0.06			
	White	W _X		0.280			
		W_{Y}		0.290			
	x axis, right(φ=0°)	θ_{r}		89		degree	5
Viewing	x axis, left(φ=180°)	θι		89		degree	5
Angle	y axis, up(φ=90°)	θ_{u}		89		degree	5
	y axis, down (φ=270°)	θ_{d}		89		degree	5



T315XW06 V1 Product Specification

Note:

1. Contrast Ratio (CR) is defined mathematically as:

Contrast Ratio=
$$\frac{\text{Surface Luminance of L}_{\text{on5}}}{\text{Surface Luminance of L}_{\text{off5}}}$$

- 2. Surface luminance is luminance value at point 5 across the LCD surface 50cm from the surface with all pixels displaying white. From more information see FIG 2. When lamp current $I_H = 11$ mA. $L_{WH}=Lon5$ where Lon5 is the luminance with all pixels displaying white at center 5 location.
- 3. The variation in surface luminance, δWHITE is defined (center of Screen) as:

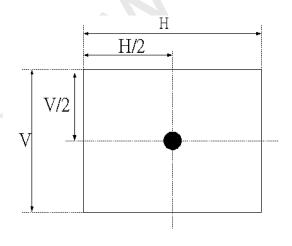
 $\delta_{WHITE(9P)}$ = Maximum(L_{on1} , L_{on2} ,..., L_{on9})/ Minimum(L_{on1} , L_{on2} ,... L_{on9})

4. Response time T_{γ} is the average time required for display transition by switching the input signal for five luminance ratio (0%,25%,50%,75%,100% brightness matrix) and is based on F_v=60Hz to optimize.

Measured				Target		
Response Time		0%	25%	50%	75%	100%
	0%		0% to 25%	0% to 50%	0% to 75%	0% to 100%
	25%	25% to 0%		25% to 50%	25% to 75%	25% to 100%
Start	50%	50% to 0%	50% to 25%		50% to 75%	50% to 100%
	75%	75% to 0%	75% to 25%	75% to 50%		75% to 100%
	100%	100% to 0%	100% to 25%	100% to 50%	100% to 75%	

5. Viewing angle is the angle at which the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see FIG4.

FIG. 2 Luminance



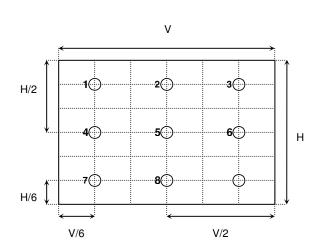






FIG.3 Response Time

The response time is defined as the following figure and shall be measured by switching the input signal for "any level of grey(bright) " and "any level of gray(dark)".

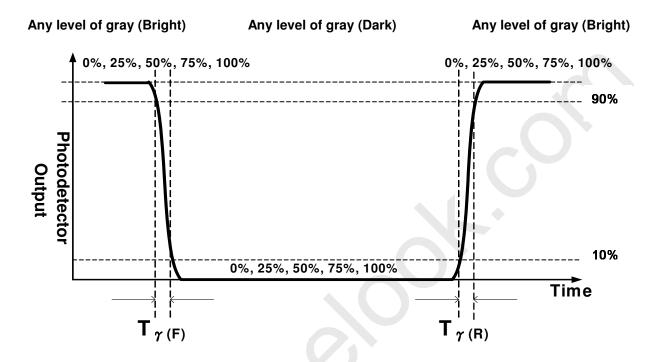
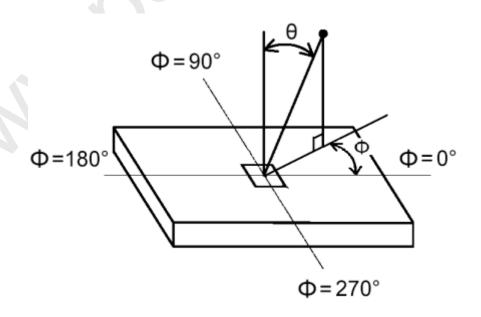


FIG.4 Viewing Angle





5. Mechanical Characteristics

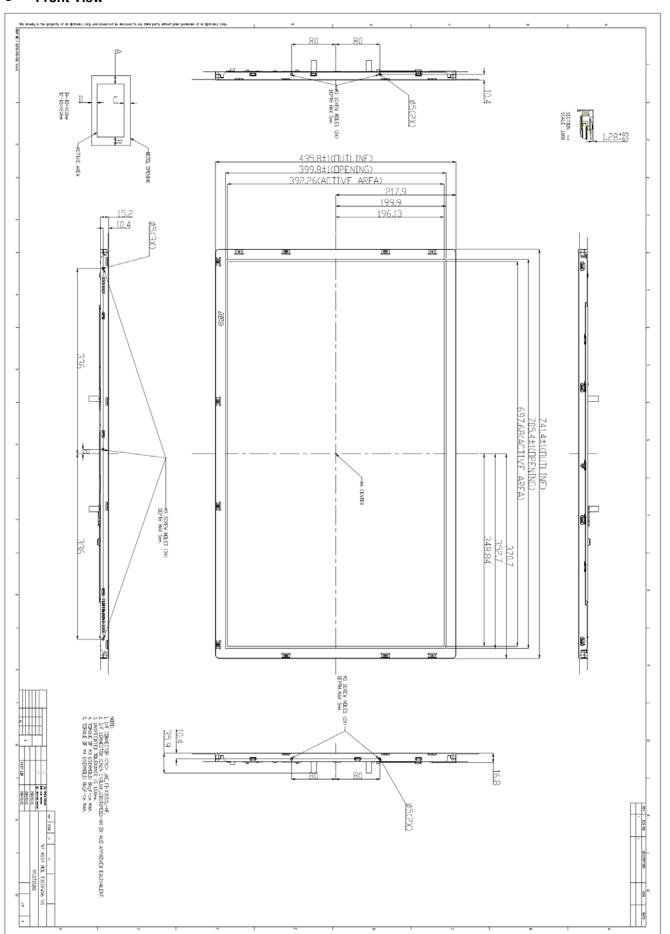
The contents provide general mechanical characteristics for the model T315XW06 V1. In addition the figures in the next page are detailed mechanical drawing of the LCD.

	Horizontal	741.4mm	
0 5	Vertical	435.8mm	
Outline Dimension	Donth	16.8mm	
	Depth	(Front Bezel to T-con Shielding)	
Baral Opening	Horizontal	705.4mm	
Bezel Opening	Vertical	(Front Bezel to T-con Shielding)	
Active Display Area	Horizontal	697.685mm	
Active Display Alea	Vertical	392.256mm	
Weight	6,000 g (Typ.)		
Surface Treatment	AG, Haze=11%, 3H		





Front View

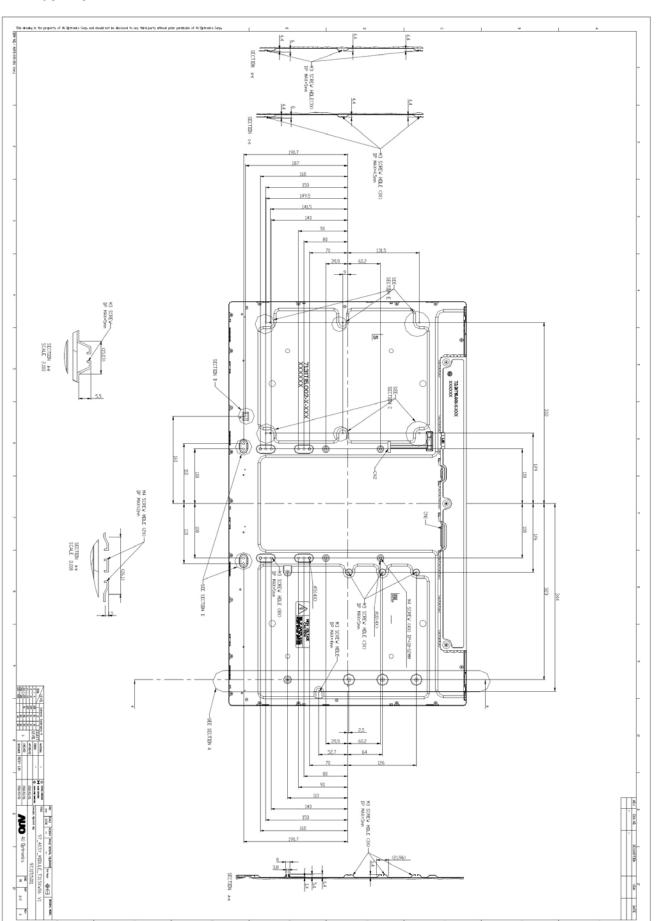


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Back View







6. Reliability Test Items

No.	Test Item	Q'ty	Condition
1	High temperature storage test	3	60°C , 300hrs
2	Low temperature storage test	3	-20℃, 300hrs
3	High temperature operation test	3	50°C , 300hrs
4	Low temperature operation test	3	-5℃, 300hrs
			Wave form: random
			Vibration level : 1.0G RMS
5	Vibration test (non-operation)	3	Bandwidth: 10-300Hz
			Duration: X, Y, Z 10min
			One time for each direction
			Shock level: 50G
6	Shock test (non-operation)	3	Waveform: half sine wave, 11ms
			Direction: ±X, ±Y, ±Z, One time each direction
		_	Random wave (1.0G RMS, 10-200Hz)
7	Vibration test (With carton)	5	10mins/ each X,Y,Z axes
			Height:38.1 cm
8	Drop test (With carton)	5	1 corner, 3 edges, 6 surfaces
			(ASTM-D5276)





7. International Standard

7-1 Safety

- (1) UL 60950-1, UL 60065; Standard for Safety of Information Technology Equipment Including electrical Business Equipment.
- (2) IEC 60950-1: 2001, IEC 60065:2001; Standard for Safety of International Electrotechnical Commission
- (3) EN 60950 : 2001+A11, EN 60065:2002+A1:2006; European Committee for Electrotechnical Standardization (CENELEC), EUROPEAN STANDARD for Safety of Information Technology Equipment Including Electrical Business Equipment.

7-2 EMC

- (4) ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment in the Range of 9kHz to 40GHz. "American National standards Institute(ANSI), 1992
- (5) C.I.S.P.R "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." International Special committee on Radio Interference.
- (6) EN 55022 "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." European Committee for Electrotechnical Standardization. (CENELEC), 1998

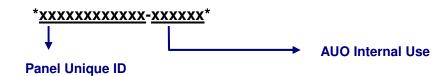


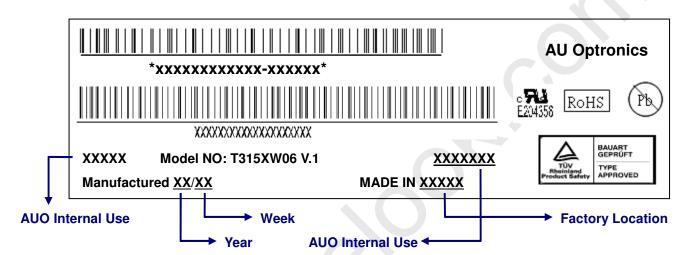
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8. Packing

8-1 Definition of Label

Panel Label



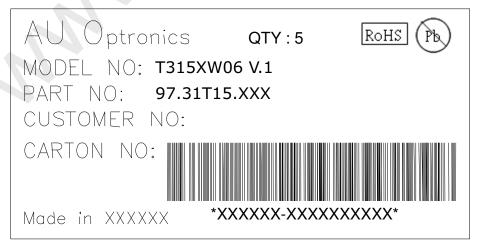


Green mark description

- (1) For Pb Free Product, AUO will add hor identification.
- (2) For RoHs compatible products, AUO will add RoHS for identification.

Note: The green Mark will be present only when the green documents have been ready by AUO internal green team. (definition of green design follows the AUO green design checklist.)

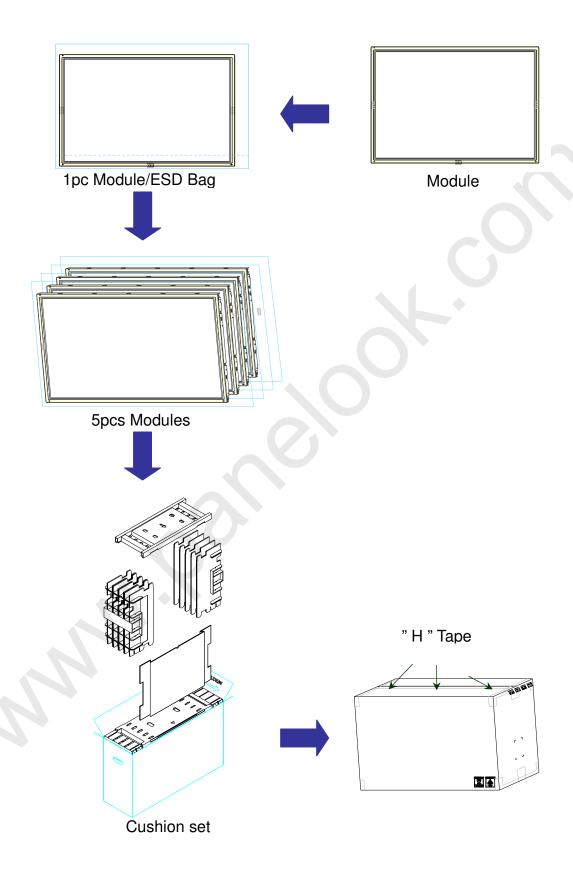
Carton Label







8-2 Packing Method

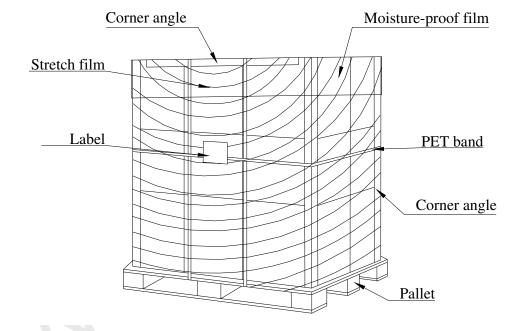






8-3 Pallet and Shipment Information

	Item		Packing		
	iteiii	Quantity	Dimension	Weight (kg)	Remark
1	Packing BOX	5pcs/box	828(L)mm*283W)mm*536(H)mm	36.5	
2	Pallet	1	1150(L)mm*840(W)mm*132(H)mm	13	
3	Boxes per Pallet	8 boxes/Pa			
4	Panels per Pallet	40 pcs/pall			
5	Pallet after packing		1150(L)mm*840(W)mm*1204(H)mm	305	
		N/A	1150(L)mm*840(W)mm*2408(H)mm	610	
			Double Pallet		







8. Precautions

Please pay attention to the followings when you use this TFT LCD module.

9-1 Mounting Precautions

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. twisted stress) is not applied to module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to the resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter cause circuit broken by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizer with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth. (Some cosmetics are detrimental to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front/ rear polarizer. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

9-2 Operation Precautions

- (1) The device listed in the product specification sheets was designed and manufactured for TV application
- (2) The spike noise causes the mis-operation of circuits. It should be lower than following voltage: V=±200mV(Over and under shoot voltage)
- (3) Response time depends on the temperature. (In lower temperature, it becomes longer..)
- (4) Brightness of module depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
- (5) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (6) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (7) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimize the interface.





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9-3 Electrostatic Discharge Control

Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wristband etc. And don't touch interface pin directly.

9-4 Precautions for Strong Light Exposure

Strong light exposure causes degradation of polarizer and color filter.

9-5 Storage

When storing modules as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5°C and 35°C at normal humidity.
- (2) The polarizer surface should not come in contact with any other object. It is recommended that they be stored in the container in which they were shipped.

9-6 Handling Precautions for Protection Film

- (1) The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.